

06/29/06

REPORT
QUARTERLY GROUNDWATER SAMPLING and
ADDITIONAL MONITOR WELL INSTALLATIONS
MARCH 2006
MARYLAND SQUARE SHOPPING CENTER
3661 SOUTH MARYLAND PARKWAY
LAS VEGAS, NEVADA
FOR AL PHILLIPS THE CLEANER

H-000086

URS Corporation
Job No. 26698724.00005
April 25, 2006

April 25, 2006

National Drycleaners, Inc. 4510 W. 63rd Terrace Prairie Village, KS 66208 Attn: Mr. Randy Jackson Al Phillips the Cleaner 3250 Ali Baba Lane, Suites C-F Las Vegas, NV 89118 Attn: Mr. Stephen Mailloux

Re: Quarterly Groundwater Sampling, March 2006

Additional Downgradient Monitor Well Installations, March 2006

Maryland Square Shopping Center

3661 South Maryland Parkway, Las Vegas, Nevada

Facility ID: H-000086

Gentlemen:

URS Corporation is pleased to submit the March 2006 quarterly groundwater sampling event report for the Maryland Square Shopping Center. Groundwater from 14 monitoring wells was sampled during this quarterly sampling event and was submitted to the laboratory to test for volatile organic compounds (VOCs). Analysis of total organic carbon, dissolved iron, and manganese, chloride, nitrate, sulfate, and alkalinity was also performed for selected groundwater samples.

This report also includes information on the installation of two additional downgradient monitoring wells, MW-26 and MW-27, and subsequent sampling of theses monitoring wells.

The Nevada Division of Environmental Protection (NDEP) requires the following statements to be provided by the responsible Environmental Manager for this project (per NRS 459.500):

"I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein."

"I, Scott Ball, hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations and ordinances."

Sincerely,

URS Corporation

Scott Ball, CEM #1316

Expires Oct 15, 2007 Project Manager

cc: NDEP

REPORT QUARTERLY GROUNDWATER SAMPLING MARCH 2006 MARYLAND SQUARE SHOPPING CENTER 3661 SOUTH MARYLAND PARKWAY LAS VEGAS, NEVADA

Prepared for:

Al Phillips the Cleaner 3250 W. Ali Baba Lane, Suites C-F Las Vegas, Nevada 89118

and

National Drycleaners, Inc. 4510 W. 63rd Terrace Prairie Village, KS 66208

Prepared by:

URS Corporation 7180 Pollock Drive, Suite 200 Las Vegas, Nevada 89119

Job No. 26698724.00005 April 25, 2006

TABLE OF CONTENTS

	Page No.
1.0 INTRODU	JCTION AND BACKGROUND1
2.0 NEW MO	NITORING WELL INSTALLATION
2.1	Groundwater Monitoring Well Locations and Depth3
2.2	Groundwater Monitoring Well Installation3
2.3	Well Development4
2.4	Groundwater Sampling4
3.0 GROUNI	DWATER SAMPLING PROCEDURES5
3.1	Groundwater Sampling5
4.0 FIELD D	ATA AND TEST RESULTS7
4.1	Water Levels and Gradient7
4.2	Groundwater Analyses and Chemistry7
5.0 CONCLU	JSIONS9
5.1	Groundwater Sampling Conclusions9
5.2	Remedial Efforts9
6.0 REFERE	NCES10
	LIST OF TABLES
Table 1 Table 2 Table 3 Table 4	Summary of Well Characteristics and Groundwater Elevations Summary of Field Water Quality Measurements in Monitoring Wells Selected VOC Concentrations in Monitoring Wells Summary of Other Analytical Data
	LIST OF FIGURES
Figure 1 Figure 2 Figure 3 Figure 4A Figure 4E Figure 5	

APPENDICES Appendix A Borehole and Well Construction Logs for MW-26 and MW-27 Appendix B Photographs of new well locations and construction Appendix C Laboratory Reports and Chain-of-Custody Forms

1.0 INTRODUCTION AND BACKGROUND

This report presents the results of the March 2006 quarterly groundwater sampling event at the
former Al Phillips the Cleaner (Al Phillips), Maryland Square Shopping Center located at 3661
South Maryland Parkway in Las Vegas, Nevada (Figure 1). This report includes the results of
groundwater sampling of 14 monitoring wells during March 2006. Additionally, this report covers
the installation of two additional groundwater monitoring wells near the downgradient edge of the
groundwater plume, along with analysis of groundwater samples taken after installation. URS
Corporation (URS), on behalf of Al Phillips, conducted the work. As required by State law, this
project is being performed under the supervision of a certified Environmental Manager.

Al Phillips took over control of assessment activities at the site from the Herman Kishner Trust in Spring 2004. Prior to URS site investigations, Converse Consultants (Converse) performed several subsurface assessments and groundwater sampling at the former Al Phillips facility from August 2000 through March 2004. Converse's findings indicate that PCE was detected in soil beneath the former facility and in groundwater adjacent to, and downgradient from, the facility. URS reviewed eleven Converse reports (see References) and other documents obtained from Converse and the Nevada Department of Environmental Protection (NDEP). URS then evaluated the data to assess whether or not the PCE source area for the groundwater plume, the lateral and vertical extent of the groundwater plume, the geology of the site, and the nature of PCE concentrations in the groundwater plume were characterized. Based upon Converse's reports, concentrations of PCE above regulatory levels are present in soil beneath the former facility and in groundwater. Al Phillips and URS met with NDEP on April 29, 2004 to discuss the transfer of site responsibility to Al Phillips from the Herman Kishner Trust. Following this meeting, a work plan for additional characterization was prepared, with a final revised plan issued September 10, 2004 as noted above.

In addition to the data provided by Converse, URS obtained findings from SECOR International Incorporated (SECOR, 2004) regarding the presence of a hydrocarbon plume in downgradient monitoring well MW-11. This monitoring well is located on the Boulevard Mall Property, east of the former Al Phillips site. This well was sampled on February 12, 2004 by representatives from both SECOR and Converse. Analysis of the samples determined that a phase-separated liquid, identified as a weathered gasoline, was present in the groundwater from the well. SECOR has undertaken remedial action at this well to remove hydrocarbon-contaminated water.

In April 2005, URS drilled seven boreholes in and around the site of the former Al Phillips the Cleaner facility. URS drilled three boreholes (B-6, B-7, and B-8) around the area where the dry cleaning equipment was formerly located. The other five boreholes (B-9 through B-12) were drilled in areas surrounding the location. Soil samples were taken at five-foot intervals from each borehole,

	except for B-11 and B-12. Based on analytical results from the soil samples collected during the April 2005 drilling and sampling event, only three soil samples (B-8-5', B-10-10', and B-10-15') exceeded the maximum soil PRG for PCE of 3,400 μ g /kg for soil located on an industrial parcel. The highest concentration detected was 120,000 μ g /kg in borehole B-10-10'.
	In addition to the boreholes, six new groundwater monitoring wells were installed by URS in March 2005. These wells are MW-17, MW-18, MW-22, MW-23, MW-24, and MW-25. Well MW-17 is located in the parking area east of the building formerly occupied by Al Phillips. Monitoring wells MW-18, MW-22, MW-23, MW-24, and MW-25 were installed in the residential area downgradient (east) of the Boulevard Mall and Al Phillips.
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2.0 NEW MONITORING WELL INSTALLATION

2.1 GROUNDWATER MONITORING WELL LOCATIONS AND DEPTH

As proposed in the Revised Work Plan to NDEP, dated February 2, 2006, two new groundwater monitoring wells, MW-26 and MW-27, were installed using a truck-mounted hollow stem auger drill rig. Monitor wells MW-26 and MW-27 wells were installed near the downgradient edge of the groundwater plume, east of existing monitor well MW-25. Figure 3 shows the approximate locations of these two new monitoring wells, as well as wells MW-1 through MW-25. Borehole construction logs for wells MW-26 and MW-27 are in Appendix A. Selected photographs of well locations and installation are provided in Appendix B. The rationale for placement of these wells was to further evaluate the groundwater PCE concentrations along the eastern extent of the plume. These two new monitoring wells were also utilized to measure the depth to groundwater across the area so that the direction of groundwater flow and gradient beneath the area could be calculated. These two wells were drilled in the following locations:

MW-26 – in Seneca Lane north of Ottawa Drive (approximately 1,500 feet east of the mall). MW-27 – in Ottawa Circle north of Ottawa Drive (approximately 2,100 feet east of the mall).

2.2 GROUNDWATER MONITORING WELL INSTALLATION

Four-inch inside diameter, Schedule 40 PVC groundwater monitoring wells were installed in boreholes MW-26 and MW-27. Borehole MW-26 was drilled first, followed by borehole MW-27. A truck-mounted hollow stem auger drill rig was used to drill the boreholes and install the monitoring wells. Boreholes were drilled to a target depth of 35 feet below ground surface (bgs). Characteristics and construction information for wells MW-26 and MW27 are listed on the Borehole and Well Construction Logs located in Appendix A. In general, well construction included a 25-foot section of 0.02-inch slotted well screen, with a 10-foot section of solid well casing in the upper portion of the well; and Monterey No. 2 (or equivalent) filter pack sand in the annular space surrounding the PVC screen and casing to three feet above the screen. Approximately three feet of hydrated bentonite pellets were placed on top of the filter pack sand. A neat cement grout was placed on top of the bentonite seal to within one foot bgs. The monitoring wells were finished at the surface using a traffic-rated well vault surrounded by concrete from one foot bgs to the ground surface.

Excess soil cuttings from well drilling were placed in DOT-approved 55-gallon drums and the drums were labeled and stored at the former Al Phillips facility prior to disposal.

The two new monitoring wells were not able to be surveyed by a Nevada licensed Land Surveyor in
time for this report. URS is currently working to get a surveyor schedule to survey the new
monitoring wells to a vertical datum so that water level measurements could be used to establish
local groundwater flow direction and gradient. These new groundwater elevations will be presented
in the next quarterly groundwater sampling report.

2.3 WELL DEVELOPMENT

New monitoring wells MW-26 and MW-27 were developed after placement of the wells. The wells were developed to remove suspended sediment and prepare for groundwater sampling. Approximately 105 gallons of groundwater were developed from each well. Development water was placed in DOT-approved 55-gallon drums and the drums were labeled and stored at the former facility, prior to disposal in accordance with regulations.

2.4 GROUNDWATER SAMPLING

Following development of the two new monitoring wells, the wells were sampled the following week on March 27, 2006. Results of sampling are presented in Section 4.0 of this report along with analytical results for other wells sampling during the March 2006 sampling event.

3.0 GROUNDWATER SAMPLING PROCEDURES

3.1 GROUNDWATER SAMPLING

Groundwater samples from 14 existing monitoring wells (MW-1, MW-7, MW-9, MW-10, MW-12 through MW-16, MW-18, MW-21, MW-22, MW-24, MW-25) were collected during this sampling event on March 13 and 14, 2006. Samples from the two new monitoring wells, MW-26 and MW-27, were collected on March 27, 2006. An electronic water level meter, accurate to the nearest \pm 0.01 foot, was used to measure depth to water in each well. Total well depths were also measured by lowering the weighted probe to the bottom of the well and recording the depth to the nearest 0.1-foot.

Monitoring wells were then purged prior to sampling. A minimum of three casing volumes of groundwater was purged using a submersible pump and/or a dedicated bailer. When used, the pump was decontaminated before use in each well. Casing volumes were calculated based on total well depth, standing water level, and casing diameter. Water quality parameters were monitored during well purging to evaluate when stable values had been attained. Temperature, pH and specific conductance (SC), dissolved oxygen (DO), turbidity, and oxidation reduction potential (ORP) were monitored during well purging. The depth to water, water quality measurements, and purge volumes were entered in the purge log.

Purge water and decontamination water was placed in DOT-approved 55-gallon drums. The drums were labeled and stored at the former Al Phillips facility, prior to disposal in accordance with regulations.

Monitoring wells were sampled using a clean disposable bailer. Groundwater samples were collected in four different types of containers based on the selected analysis. Water samples to be analyzed for VOCs were collected in three 40-milliliter clear glass VOA vials pre-preserved with hydrochloric acid. Three VOA vials were collected in case one breaks during transport. The VOA vials were filled so that there was no headspace. Water samples to be analyzed for TOC were collected in 500-milliliter amber glass bottles pre-preserved with sulfuric acid. Groundwater samples to be analyzed for dissolved iron and manganese were collected in one-liter clear plastic bottles that contained no preservative. These samples were filtered and preserved with nitric acid by the laboratory prior to analysis. Groundwater samples to be analyzed for chloride, nitrate, sulfate, and alkalinity were also collected in one-liter clear plastic bottles. Groundwater samples were transferred from the disposable bailer directly into the appropriate sample containers and were numbered by well number on the sample container.

Groundwater samples were labeled with the date and time the sample was collected, the sample and well number, and name of the firm and signature of the individual collecting the sample. The sample

containers were sealed, labeled, and stored in a cooler with ice. Chain-of-custody forms (Appendix C) were filled out with all the appropriate sample information, and accompanied the samples to the analytical laboratory. Field meter probes were decontaminated before use at each well.	

4.1 WATER LEVELS AND GRADIENT

The depths to water in each of the 14 selected monitoring wells was measured March 13 and 14, 2006 and are listed on Table 1 along with historical data. Depths to water for wells MW-26 and MW-27 were collected on March 27, 2006. The depth to groundwater in these sixteen wells ranged from approximately 10.21 feet below top of casing in well MW-18 to 24.68 feet in well MW-22. Figure 2 shows hydrographs for the shallow wells during the last five years. In general, groundwater elevation has decreased by approximately one foot since the December 2005 sampling event. This is likely indicative of seasonal groundwater fluctuation. The general flow direction for the shallow aquifer varies from approximately N80°E to N85°E, as indicated by the groundwater contours and flow directions shown on Figure 3. As quarterly sampling continues, a better picture of quarterly water levels and their fluctuation will be evaluated.

4.2 GROUNDWATER ANALYSES AND CHEMISTRY

The groundwater samples were analyzed for VOCs by U.S. EPA method 8260B. Selected samples from monitoring wells MW-1, MW-13, MW-18, and MW-25 were analyzed for total iron and manganese; chloride, nitrate, and sulfate; alkalinity; and total organic carbon (TOC), by U.S. EPA methods 200.8, 300.0 and 310.1, and 415.1, respectively. The laboratory analytical reports and chain-of-custody forms are provided in Appendix C.

Table 2 summarizes field measurements of groundwater temperature, pH, specific conductance (SC), DO, ORP, and turbidity in the monitoring wells. Groundwater temperatures ranged from 22.4 to 24.2 degrees Centigrade (°C) and pH measured during this sampling event ranged from 4.67 to 6.83. Groundwater SC in the intermediate well (MW-9) was 2,080 microsiemens (equivalent to ohms) per centimeter (μS/cm), while the SC of shallow groundwater wells ranged from 3,280 to 6,760 μS/cm. Field measurements of DO concentration in the groundwater are used to monitor the extent of natural attenuation occurring within the aquifer. DO concentrations below 0.5 milligrams per liter (mg/L) are considered characteristic of anaerobic conditions (Wiedemeier et al, 1998). DO concentrations during the March 13 and 14, 2006 sampling event in the shallow and intermediate wells were unavailable due to a failure with the DO instrument causing erroneous data to be given. DO concentrations in new monitoring wells MW-26 and MW-26 were 2.59 mg/L and 2.44 mg/L, respectively. ORP values for shallow wells ranged from 68 to 634 millivolts (mV), while the intermediate well had an ORP of 496 mV.

The Nevada Drinking Water Standards Maximum Contaminant Level (MCL) for PCE in groundwater is 5 micrograms per liter (µg/L). Analytical results for groundwater collected during

this sampling event from shallow wells MW-1, MW-13, MW-14, MW-18, MW-21, and MW-24 through MW-27 exceeded the PCE MCL. Table 3 summarizes the analytical data for PCE detected in the wells. Figures 4A and 4B show the PCE concentrations vs. time in the shallow and intermediate wells, respectively. The highest concentration of PCE detected this quarter was 3,700 µg/L in shallow well MW-13. Well MW-13 is located down gradient from the site on the Boulevard Mall property near the northeast corner of the front parking garage. PCE was not detected in shallow wells MW-10, MW-16, and MW-22. The analytical results for groundwater collected from intermediate well MW-9 were non-detect for the first time since sampling began. PCE was detected in quantities below the PCE MCL in shallow wells MW-7, MW-12, and MW-15. Monitoring wells MW-26 and MW-27 were sampled the week following installation, on March 27, 2006. PCE concentrations in MW-26 were 730 µg/L and 220 µg/L in MW-27, which are the furthest downgradient wells at this site. Figure 5 shows the monitoring well locations, respective PCE concentrations for selected shallow and intermediate wells, and the estimated PCE plume area for the shallow aquifer for this current sampling event.

Trichloroethene (TCE), a degradation compound of PCE, was not detected in groundwater this sampling event. TCE is a first order reductive dechlorination (anaerobic conditions) degradation compound of PCE. Based on prior groundwater analytical results, TCE has been detected in low concentrations in wells MW-2, MW-6, and MW-22 in prior sampling events.

A secondary degradation compound, cis-1,2-dichloroethene, was not detected this sampling event. This compound has been detected at low concentrations in samples from prior sampling events and is potentially derived from breakdown of the PCE impact.

Table 4 summarizes the results of laboratory testing for ionic compounds for the March 2006 sampling event. This is the fourth sampling event during which these parameters have been monitored. Iron concentrations ranged from 2.6 mg/L to 24.0 mg/L and manganese concentrations ranged from 0.012 mg/L to 0.230 mg/L. The anions (chloride, nitrate, and sulfate) ranged from 150 to 170 mg/L, 5.2 to 8.4 mg/L and 1,500 to 1,600 mg/L, respectively. Total alkalinity laboratory concentrations ranged from non-detect 220 to 250 mg/L. Total organic carbon (TOC) concentrations ranged from 1.4to 3.8 mg/L.

5.1 GROUNDWATER SAMPLING CONCLUSIONS

In general, historical laboratory analytical data indicates that PCE concentration levels in monitoring wells have fluctuated over time, dating back to the first analysis by Converse in August 2000. PCE concentrations increased in only one of the sixteen monitor wells samples this quarter compared to that detected in December 2005. PCE concentrations in the most easterly downgrade well MW-27 (installed in March 2006) were 220 µg/L.

Based on the groundwater monitoring and analytical results obtained during the last three sampling events, it appears that the PCE groundwater plume is approximately 600 feet wide and a minimum of 4,000 feet long. The groundwater plume is relatively narrow and may follow an old paleochannel.

5.2 REMEDIAL EFFORTS

There is no evidence in the borings to support This statement Esource area. A 'Proposed Remedial Pilot

Al Phillips will focus future remedial efforts on the PCE source area. A 'Proposed Remedial Pilot Study Letter' was submitted to NDEP on December 27, 2005. This letter proposed, based on analysis of site conditions and remedial conditions in the Las Vegas valley, the installation of a groundwater air-sparging (AS) pilot remedial system at the facility.

Additionally, contact has been made with the new property owner of the former Maryland Square Shopping Center site, Maryland Square LLC (MS). MS has stated their intention to demolish the buildings that currently occupy the Maryland Square Shopping Center site, with plans for redevelopment of the property in the next year. Ongoing discussions with MS could change the proposed plans for installations of an AS remedial system. Al Phillips will continue to update NDEP if this moves forward.

- - SECOR International Incorporated, 2004. Preliminary Well Assessment, Monitoring Well MW-11, West of Dillard's Boulevard Mall Property, Las Vegas, NV, dated March 29, 2004.
 - URS, 2004. Revised Work Plan, Proposed Subsurface Investigation, Former Al Phillips the Cleaner Site, Maryland Square Shopping Center, Las Vegas, NV, dated September 10, 2004.
 - URS, 2005. Subsurface Investigation, Former Al Phillips the Cleaner Site, Maryland Square Shopping Center, Las Vegas, NV, dated July 11, 2005.
 - URS, 2005. Quarterly Groundwater Sampling, Former Al Phillips the Cleaner Site, Maryland Square Shopping Center, Las Vegas, NV, dated September 26, 2005.
 - URS, 2005. Proposed Remedial Pilot Study, Former Al Phillips the Cleaner Site, Maryland Square Shopping Center, Las Vegas, NV, dated December 27, 2005.
 - URS, 2006. Quarterly Groundwater Sampling, Former Al Phillips the Cleaner Site, Maryland Square Shopping Center, Las Vegas, NV, dated February 6, 2006.
 - Wiedemeier, T. H., et al. 1998. Technical protocol for evaluating natural attenuation of chlorinated solvents in ground water. U.S. Environmental Protection Agency, Office of Research and Development, Publication U.S. EPA/600/R-98/128.

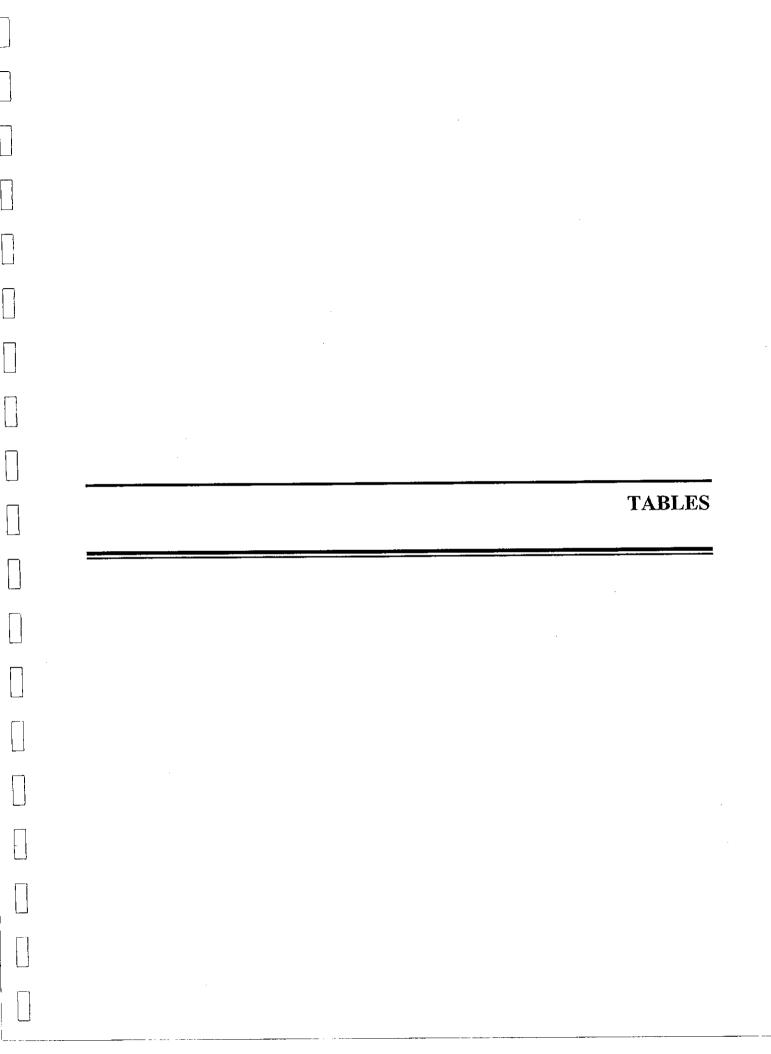


TABLE 1 SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER LEVELS Maryland Square Shopping Center

	İnstall	Top of casing	Screen	Sample	GROUNDWARERDER	TH/ELEVATION DATA
WellID	Date	(Flevation)	Denth (in ft)	Date	Depth to Water	Elevation
					(inft)	(in ft)
	···	1 001 01	SHAL	LOW W	17.54	1974.27
NAVI 4		1,991.81		Oct 00		
				Sep 02	17.90	1974.14 1973.34
				May 03	18.70	1973.07
			10.20	Sept 03	18.97	
MW-1	Aug-00	1,992.04	10-30	Jan 04	19.30	1972.74 1976.80
				May 05	15.24	1975.30
			•	Sept 05	16.74	1975.30
	1			Dec 05	17.61	
		1.000.50		Mar 06	18.42	1973.62
		1,983.79		Oct 00	15.52	1968.27 1967.37
		1,983.99]	Sep 02	16.62	
		1,983.97	_	May 03	17.15	1966.84
MW-2	Oct-00		10-32	Sept 03	17.70	1966.27 1965.72
	; 			Jan 04	18.25	
				May 05	14.65	1969.32 1967.97
		1.004.10	<u> </u>	Dec 05	16.00	
		1,984.19	10-32	Oct 00	15.95	1968.24
		-00 1,984.43		Sep 02	17.20	1967.26 1966.76
2.5727.0	0 . 00			May 03	17.70	1966.78
MW-3	Oct-00			Sept 03	18.35	1965.18
				Jan 04	19.25	1969.21
				May 05	15.22	1967.98
		1 050 60	 	Dec 05	16.45	
		1,989.68	-	Oct 00	16.95	1972.73 NM
		1,989.87	1	Sep 02	NM	1971.16
3.6331.4	0 . 00	<u> </u>	- ,, ,,	May 03	18.71	1970.80
MW-4	Oct-00	1	10-32	Sept 03		
		1,989.85		Jan 04	19.86	1969.99 1974.02
		1		May 05		
		1,000,00		Dec 05	17.62	1972.23
		1,988.93	-	Oct 00	16.20	1972.73
MW-5			1	Sep 02	 	1972.18
			10.00	May 03		1971.38
	Oct-00	1,989.18	10-32	Sept 03		1971.11
				Jan 04		1970.53
				May 05		1974.31
	1	1	1	Dec 05	16.80	1972.38

TABLE 1 SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER LEVELS Maryland Square Shopping Center

			Screen "	Sample	GROUNDWATERDEI	TH/LEEVASTION DATA
Vellid	Date	Topol Casing ((Lievation)	Depth (in ft)	Date	Depinio Water, 1	Elevation (in ft)
.acscreosom	at the party of the party of	1,988.72		Oct 00	17.41	1971.31
				Sep 02	18.26	1970.75
				May 03	18.87	1970.14
MOVIC	0-4-00		10-32	Sept 03	19.25	1969.76
MW-6	Oct-00	1,989.01	10-32	Jan 04	19.74	1969.27
				May 05	16.21	1972.80
- 1				Sept 05	17.26	1971.75
				Dec 05	17.88	1971.13
		1,000,00		Sep 02	18.27	1972.01
]		1,990.28	ĺ	May 03	16.60	1973.68
				Sept 03	16.79	1973.46
			10.20	Jan 04	17.32	1972.93
MW-7	Sep 02	1,990.25	10-30	May 05	13.86	1976.39
				Sept 05	14.97	1975.28
				Dec 05	15.45	1974.80
				Mar 06	16.41	1973.84
	Sep 02	1,994.25	10-30	Sep 02	18.55	1975.70
				May 03	19.50	1974.75
				Sept 03	19.55	1974.68
MW-8				Jan 04	19.91	1974.32
				May 05	15.51	1978.72
				Dec 05	18.48	1975.75
				Sep 02	18.51	1965.30
	:	1,983.81		May 03	18.65	1965.16
			1	Sept 03	19.45	1964.35
	İ		1.0.50	Jan 04	20.32	1963.48
MW-10	Sep 02	1	10-30	May 05	16.76	1967.04
		1,983.80		Sept 05	16.95	1966.85
				Dec 05	17.64	1966.16
			1	Mar 06	19.25	1964.55
				Sep 02	24.22	1956.02
		1		May 03	24.25	1955.99
MW-11	Sep 02	1,980.24	13.5-33.5		25.62	1954.62
	250			Jan 04	26.22	1954.02
	1			May 05	22.55	1957.69
	1			Sep 02		1981.69
MW-12	Sep 02	1,996.59	13.5-33.5			1981.52
	1	1,996.50		Sept 03	15.30	1981.20

TABLE 1
SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER LEVELS
Maryland Square Shopping Center

			Screen :		GROUNDWATER DEI	TH/ELEVATION DATA
Welland	Date	Top of Casing a (Elevation)	Depth (in ft):	Sample Date	o Depuh to Water	Elevation (in t)
Supplied of the Control of the Contr	HEND NAKHTONIA	agreed agond by the second second of the bar	garanta, tina a tantan	Jan 04	15.40	1981.10
ł				May 05	12.34	1984.16
MW-12	Sep 02	1,996.50	13.5-33.5		13.45	1983.05
W1W-12	•			Dec 05	14.20	1982.30
		ı.		Mar 06	15.00	1981.50
		1,984.23		May 03	17.25	1966.98
				Sept 03	17.60	1966.60
				Jan 04	18.00	1966.20
MW-13	May-03		9-29	May 05	14.76	1969.44
		1,984.20		Sept 05	15.60	1968.60
				Dec 05	16.05	1968.15
				Mar 06	17.24	1966.96
	Nov-03	1,987.89	15-40	Jan 04	18.35	1969.54
				May 05	15.02	1972.87
MW-14				Dec 05	16.50	1971.39
				Mar 06	17.54	1970.35
	Nov-03	3 1,983.28	15-32	Jan 04	15.60	1967.68
				May 05	12.59	1970.69
MW-15				Sept 05	13.45	1969.83
				Dec 05	13.77	1969.51
			}	Mar 06	15.00	1968.28
	-			Jan 04	26.22	1954.41
	Nov-03			May 05	23.41	1957.22
MW-16		v-03 1,980.63	19-32	Sept 05	24.12	1956.51
2.21. 24			19-32	Dec 05	24.21	1956.42
	1			Mar 06	25.06	1955.57
MW-17		1,000,00	15.00	May 05	15.07	1975.85
(4-inch)	Apr-05	1,990.92	15-20	Dec 05	17.05	1973.87
			İ	May 05	8.71	1954.16
MW-18	Apr-05	1,962.87	15-20	Sept 05	9.69	1953.18
(4-inch)	*			Dec 05	9.70	1953.17
			-	Mar 06	10.21	1952.66
		1,000.05	10.25	Jan 04	25.65	1954.61
MW-19	Nov-03	1,980.26	19-35	May 05		1957.56
	-	<u> </u>		Dec 05	23.65	1956.61
			10.05	Jan 04	25.50	1954.49
MW-20	Nov-03	1,979.99	19-35	May 05 Dec 05	1	1957.41 1956.44

TABLE 1 SUMMARY OF WELL CHARACTERISTICS AND GROUNDWATER LEVELS Maryland Square Shopping Center

	AND DESTRU		Sercen		GROUNDWÄDERIDE	THE EVATION DATA
aven in	Date	Top of Casing (Elevation)	Depth (mft)	Sample Date	Depin to Water	THE REPORT OF THE PARTY OF THE
ALAR SHADE	SPECIAL USE A TUBBER	SACTION TRANSCOLORS SALES VIOLEN	Man Haraki Merangan Indonesia	Jan 04	24.72	1954.84
				May 05	21.76	1957.80
MW-21	Nov-03	1,979.56	19-35	Sept 05	22.70	1956.86
141 44 -21	1404-05	1,575.50	1,,55	Dec 05	22.85	1956.71
					23.46	1956.10
				Mar 06		
				May 05	23.04	1951.72 1950.58
MW-22	Арг-05	1,974.76	15-20	Sept 05	24.18	1950.38
(4-inch)	1 1	•		Dec 05	24.30	1950.08
	ļ			Mar 06	24.68	1930.06
MW-23	Apr-05	1,962.32	15-20	May 05	13.06	1949.20
(4-inch)		-,		Dec 05	14.05	1950.02
	Apr-05	1,960.74	15-20	May 05	10.72 11.75	1948.99
MW-24				Sept 05	11.75	1949.09
(4-inch)				Dec 05 Mar 06	12.10	1948.64
				May 05	16.01	1944.73
DATE OF	Apr-05	1,960.74	1	Sept 05	17.45	1943.29
MW-25			15-20	Dec 05	16.85	1943.89
(4-inch)				Mar 06	17.30	1943.44
MW-26 (4-inch)	Mar-06	*	10-35	Mar 06	15.60	
MW-27 (4-inch)	Mar-06	*	10-35	Mar 06	13.48	
			INTERI	MEDIATI	E WELL	
			1	Sep 02	18.46	1973.80
		1,992.26		May 03	19.15	1973.11
			1	Sept 03	19.02	1973.24
nassu o	G 02		48.5-50	Jan 04	19.05	1973.21
MW-9	Sep-02	1,992,26	10.5-00	May 05	15.36	1976.90
		1,992.20		Sept 05	17.85	1974.41
			1	Dec 05	17.68	1974.58
	1			Mar-06	18.55	1973.71

NOTES: All measurements are in feet. Top of casing elevation is in feet above mean sea level.

All wells are 2-inch diameter PVC casing and screen, unless indicated.

All wells installed prior to September 2003 were resurveyed in September of 2003.

NM = 'not measured'; * =Mar 2006 installed wells yet to be surveyed

TABLE 2 SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS Maryland Square Shopping Center

Well ID.	Sample LDate	pH	Temperature (QC)	Specifica- Specifica- Conductance (mS/cm)		Potential	Turbidity (ntv)		
SHALLOW WELLS									
	Jan-04	6.97	22.5	3.48	0.93	NM	NM		
	May-05	7.02	26.0	3.98	5.43	110	441		
MW-1	Sep-05	7.08	27.5	4.16	6.99	129	64		
	Dec-05	6.98	26.9	5.10	2.01	404	290		
	Mar-06	4.95	23.1	5.62	**	545	>999		
	Jan-04	7.05	23.2	3.10	1.13	NM	NM		
MW-2	May-05	6.93	23.4	3.47	4.82	193	698		
	Dec-05	6.63	25.4	4.82	2.67	264	360		
	Jan-04	6.87	22.4	2.91	0.97	NM	NM		
MW-3	May-05	6.99	26.0	2.88	2.54	149	**		
	Dec-05	6.55	27.3	4.69	0.88	33	100		
	Jan-04	6.95	22.0	2.71	1.23	NM	NM		
MW-4	May-05	6.83	24.2	3.73	3.68	160	664		
ļ	Dec-05	6.68	25.9	4.90	3.22	219	670		
	Jan-04	6.72	22.3	2.61	1.20	NM	NM		
MW-5	May-05	7.09	25.4	2.59	4.56	184	**		
	Dec-05	6.78	26.8	5.28	1.51	377	>999		
	Jan-04	6.97	22.4	2.31	1.19	NM	NM		
MW-6	May-05	6.91	25.9	2.35	2.81	123	**		
1V1 VV -O	Sep-05	6.99	26.9	3.95	6.23	-119	34		
	Dec-05	6.80	26.5	4.86	1.10	163	220		
	Jan-04	7.00	22.4	2.23	0.93	NM	NM		
	May-05	7.10	24.8	1.79	4.03	129	**		
MW-7	Sep-05	6.97	26.6	4.62	6.22	144	140		
	Dec-05	6.67	23.8	5.33	1.80	472	5		
	Mar-06	4.67	22.4	6.71	**	634	428		
	Jan-04	6.99	22.0	2.16	1.04	NM	NM		
MW-8	May-05	7.03	27.7	1.75	3.64	107	**		
	Dec-05	6.68	24.1	4.24	2.08	483	>999		
	Jan-04	7.00	24.4	3.13	1.03	NM	NM		
	May-05	6.82	28.1	3.20	1.46	-253	25		
MW-10	Sep-05	6.96	27.9	2.90	3.89	-239	28		
	Dec-05	6.69	23.9	3.66	1.47	-140	57		
. ,	Mar-06	5.73	21.3	1.77	**	-154	153		
MW-11	Jan-04	NM	NM	NM	NM	NM	NM		

TABLE 2
SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS
Maryland Square Shopping Center

wyeh i D	Sample Date	, pr	Temperature	Specific Conductance (mS/cm)	WICE AND THE SECOND PROPERTY	(Oxidation- Reduction Potential	Turbidity (infit)
MW-11	May-05	NM	NM	NM	NM	NM	NM
MW-12	Jan-04	6.99	22.4	2.15	NM	NM	NM
	May-05	6.76	24.9	2.58	3.22	219	**
	Sep-05	7.03	25.6	4.22	4.96	95	160
	Dec-05	6.68	22.5	4.98	2.00	523	210
	Mar-06	4.93	23.5	6.65	**	503	91
	Jan-04	6.61	22.2	3.29	1.07	NM	NM
	May-05	6.97	24.5	2.06	4.16	118	>999
MW-13	Sep-05	7.07	25.4	3.95	6.85	144	270
	Dec-05	6.70	24.9	5.03	2.19	250	330
Ī	Mar-06	5.45	22.8	3.64	**	68	44
	Jan-04	6.99	22.3	2.27	1.30	NM	NM
2077.4	May-05	6.95	24.7	3.23	NM	140	NM
MW-14	Dec-05	6.78	26.1	5.31	2.07	206	>999
	Mar-06	5.23	24.2	6.76	**	234	898
MW-15	Jan-04	6.35	22.4	2.20	1.00	NM	NM
	May-05	6.99	25.1	2.33	2.85	164	**
•	Sep-05	6.97	25.8	3.57	3.48	-24	36
MW-15	Dec-05	6.58	25.9	4.45	1.03	-38	140
	Mar-06	4.70	23.9	6.40	**	613	20
	Jan-04	6.97	22.4	2.31	0.68	NM	NM
	May-05	7.12	25.2	2.88	1.10	-4	**
MW-16	Sep-05	7.00	24.6	3.42	3.50	-31	520
	Dec-05	6.74	25.3	3.76	1.30	48	>999
	Mar-06	5.15	23.8	5.74	**	162	199
1011 104	May-05	6.92	24.1	3.49	5.94	181	22
MW-17*	Dec-05	6.90	26.8	4.65	2.30	240	6
	May-05	7.10	24.3	3.86	5.56	139	>999
2 5777 5 6 1	Sep-05	7.10	26.3	4.12	6.21	88	3
MW-18*	Dec-05	6.79	25.2	4.73	1.98	420	**
	Mar-06	5.17	23.3	6.21	**	237	3
	Jan-04	6.99	22.4	1.90	1.02	NM	NM
MW-19	May-05	7.13	25.0	1.86	5.76	130	**
147 44-13	Dec-05	6.64	24.7	4.74	1.95	388	**
MW-20	Jan-04	6.94	22.6	2.07	1.11	NM	NM

TABLE 2
SUMMARY OF FIELD WATER QUALITY MEASUREMENTS IN MONITORING WELLS
Maryland Square Shopping Center

oxidation:									
	Sämple a Date		Temperature	Specific	Dissolved	ARTHUR MEDICAL CONTRACTOR STATE	Turbidity		
Well-ID	Date	pΠ	- 1(O) \$	Conductance (ms/cm)	Oxygen (mg/L)	Potential:	(ntii)		
					(U.B.)	(mV)			
MW-20	May-05	7.16	23.6	1.32	4.97	131	**		
	Dec-05	6.76	20.5	4.37	0.77	272	**		
	Jan-04	6.91	22.3	2.04	1.08	NM	NM		
	May-05	7.07	24.6	2.82	2.88	131	**		
MW-21	Sep-05	7.06	25.8	4.66	4.07	109	39		
	Dec-05	6.64	24.3	4.60	0.54	264	>999		
	Mar-06	5.52	23.0	3.58	**	309	140		
	May-05	6.79	24.1	3.89	1.68	46	474		
MW-22*	Sep-05	6.90	23.9	4.25	7.16	46	10		
191 99 - 22 "	Dec-05	6.42	24.6	4.20	1.31	213	**		
	Mar-06	4.79	24.0	6.09	**	269	30		
DATE OF	May-05	7.00	24.5	3.63	2.56	121	**		
MW-23*	Dec-05	6.71	24.9	4.91	2.13	320	**		
··	May-05	6.97	23.1	3.56	1.48	76	>999		
MW-24*	Sep-05	7.00	25.8	3.83	3.62	5	25		
W W-24	Dec-05	6.56	25.6	4.46	1.04	183	29		
	Mar-06	4.70	22.6	6.02	**	503	1		
	May-05	7.03	23.6	4.00	4.34	141	>999		
34337.054	Sep-05	7.01	26.2	4.18	5.10	57	30		
MW-25*	Dec-05	6.63	24.7	5.28	1.35	417	0		
	Mar-06	5.15	23.6	6.67	**	255	94		
MW-26	Mar-06	6.83	23.8	3.75	2.59	158	0		
MW-27	Mar-06	6.83	21.9	3.28	2.44	142	0		
Av	erage	6.63	24.4	3.84	2.75	182	197		
			INTER	MEDIATE WE	ELL				
	Jan-04	6.99	22.6	2.50	1.18	NM	NM		
	May-05	7.14	26.1	2.68	7.56	130	296		
MW-9	Sep-05	7.17	27.1	1.81	6.58	111	4		
	Dec-05	6.88	26.6	2.45	2.49	123	33		
	Mar-06	5.06	25.9	2.08	**	496	-1		
Av	erage	6.65	25.7	2.30	4.45	121	150		

NOTES: *= wells installed in Apr 2005. ** = instrument failure

Monitoring well MW-11 not sampled due to detection of floating hydrocarbons in the well.

oC = degrees Celsius. uS = microsiemens (equivalent to umbos). mg/L = milligrams per liter.

mV = millivolts. Ntu = Nephelometric Turbidity Units

Vell ID				
e i di co	Sample Date	percilloroctivient 3 a	irichloroethenes	ucis-1-2-Dichlorethene
PARTOR SCHOOL SE	en kansar gradi sasar pengalah	SHALLOW W	ELLS	2000
	Aug 00	2,300	ND	ND
	Oct 00	NS	NS	NS
	Sep 02	2,000	ND	ND
	May 03	870	ND	ND
	Sep 03	2,300	ND	ND
MW-1	Nov 03	-	<u>-</u>	<u> </u>
	Jan 04	1,700	ND	ND
	May 05	3,500	ND	ND
	Sep 05	1,700	ND	ND
	Dec 05	820	ND	ND
:	Mar 06	420	ND .	ND
L	Oct 00	3,000	18	18
	Sep 02	3,000	13	13
	May 03	1,400	ND	ND
MW-2	Sep 03	1,700	ND	ND
177 17 -2	Nov 03		-	-
	Jan 04	1,700	ND	ND
	May 05	2,050	17	9.7
	Dec 05	2,900	ND	ND
L	Oct 00	. 98	ND	ND
L	Sep 02	ND	ND	ND
L	May 03	7	ND	ND
MW-3	Sep 03	12	ND	ND
	Nov 03		-	-
L	Jan 04	7	ND	ND
L	May 05	ND	ND	ND
	Dec 05	ND	ND	ND
-	Oct 00	14	ND ND	ND
-	Sep 02	25	ND_	ND
Ļ	May 03	24	ND	ND
MW-4	Sep 03	100	ND	ND_
	Nov 03		-	- ND
ļ	Jan 04	220	ND	ND ND
-	May 05	25	ND	
	Dec 05	15	ND	ND ND
Ļ	Oct 00	100	ND	ND
1	Sep 02	110	ND	ND
1	May 03	240	ND	ND
MW-5	Sep 03	220	ND	ND
	Nov 03	- 270	- ND	ND
1	Jan 04 May 05	370 146	ND ND	ND
1				i INII

	Sample	Con	centration (m.ug/L)		
veliD:	Date 1	Perchloroethylene (PCE)	Condition of the condition (TGE)	cis 12-Dichlorethene	
TO SECURITY OF THE PARTY OF THE	Oct 00	2,200	13	8.1	
_	Sep 02	1,000	41	14	
Γ	May 03	710	22	ND	
ſ	Sep 03	1,300	ND	ND	
MW-6	Nov 03	•	-		
	Jan 04	2,400	ND	ND	
Γ	May 05	2,090	13	11	
	Sep 05	890	13	23	
	Dec 05	530	41	21	
	Sep 02	ND	ND	ND	
	May 03	1.7	ND	ND	
	Sep 03	2.0	ND	ND	
	Nov 03	-	-	<u>-</u>	
MW-7	Jan 04	11.0	ND	ND	
11211-7	May 05	ND	ND	ND	
	Sep 05	3.3	ND	ND	
	Dec 05	1.2	ND	ND	
	Mar 06	1.5	ND	ND	
	Sep 02	5.4	ND	ND	
	May 03	3.2	ND	ND	
	Sep 03	3.7	ND	ND ND	
MW-8	Nov 03		-		
1	Jan 04	4.7	ND	ND	
	May 05	5.6	5.6	ND ND	
	Dec 05	3.6	ND	ND	
	Sep 02	ND	ND	ND	
	May 03	ND	ND	ND	
	Sep 03	15.0	ND	ND	
L	Nov 03		-	-	
MW-10	Jan 04	ND	ND	ND	
ļ	May 05	ND	ND	ND	
1	Sep 05_	ND ND	ND	ND	
1	Dec 05	ND ND	ND	ND	
	Mar 06	ND	ND	ND	
ļ	Sep 02	ND	ND	ND	
	May 03	ND	ND	ND	
	Sep 03	NS ^(t)	NS ⁽¹⁾	NS ⁽¹⁾	
MW-11	Nov 03	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾	
1,41,-24	Jan 04	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾	
ł	May 05	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾	
	Dec 05	NS ⁽¹⁾	NS ⁽¹⁾	NS ⁽¹⁾	
	Sep 02	ND	ND	ND	
MW-12	May 03	1.3	ND	ND	

	Sample 3	Gon	entration (m/ug/L)			
Vell ID	Date	operchloroethylene (PGE)	trichloroethene	cis-1-2-Dichlorethene		
1, 14, 14, 14, 14	Sep 03	14.0	ND	ND		
MrW-12	Nov 03	-	-	-		
	Jan 04	6.1	ND	ND		
	May 05	ND	ND	ND		
	Sep 05	1.1	ND	ND		
ľ	Dec 05	1.2	ND	ND		
Ţ	Mar 06	1.1	ND	ND		
	May 03	2,100	ND	ND		
ļ.	Sep 03	2,800	ND	ND		
	Nov 03	-	-	-		
MW 12	Jan 04	2,700	ND	ND_		
MW-13	May 05	5,310	ND	ND		
	Sep 05	2,600	ND	ND		
	Dec 05	3,400	ND	ND		
	Mar 06	3,700	ND	ND		
	Nov 03	1,900	ND	ND		
MW-14	Jan 04	2,100	ND	ND		
	May 05	2,920	5.5	ND		
	Dec 05	3,400	ND	ND		
	Mar 06	2,500	ND ND	ND		
	Nov 03	5.2	ND	ND		
	Jan 04	2.7	ND	ND		
MW-15	May 05	ND	ND	ND		
141.44-12	Sep 05	3.6	ND	ND		
	Dec 05	5.0	ND	ND		
	Mar 06	4.5	ND	ND		
	Nov 03	ND ND	ND	ND		
	Jan 04	ND	ND	ND		
MW-16	May 05	ND	ND	ND		
111 11 -TO	Sep 05	ND ND	ND	ND		
	Dec 05	ND	ND	ND		
	Mar 06	ND	ND_	ND		
MW-17	May 05	520	ND	ND		
	Dec 05	470	ND	ND		
	May 05	1,600	ND	ND		
MW-18	Sep 05	1,700	ND	ND		
	Dec 05	2,400	ND	ND_		
	Mar 06	1,700	ND	ND		
	Nov 03	1,100	ND	ND		
MW-19	Jan 04	1,200	ND	ND		
	May 05	873	ND	ND_		
	Dec 05	1,300	ND	ND		

	Samole	Con	entration (in ug/L)		
well ID	Date 1	Gon uperchloroethylene (IGD)	(TCE)	cis-1,2-Dichlorethene	
	Nov 03	1,800	ND	ND	
MW-20	Jan 04	290	2.8	ND	
JAS -	May 05	1,460	ND	ND	
M <i>W;2</i> 0 -	Dec 05	1,800	ND	ND	
	Nov 03	51	ND	ND	
	Jan 04	55	ND	ND	
MW-21	May 05	30	ND	ND	
.11.11-21	Sep 05	19	2.4	1.5	
	Dec 05	16	1.8	1.3	
	Mar 06	43	ND	ND	
	May 05	ND	ND	ND	
MW-22	Sep 05	ND	ND	ND	
T	Dec 05	1.0	ND	ND	
	Mar 06	ND	ND	ND	
M331 22	May 05	1,430	ND	ND	
MW-23	Dec 05	1,900	ND	ND	
	May 05	ND	ND	ND	
MW-24	Sep 05	4.3	ND	ND	
Ī	Dec 05	6.7	ND	ND	
	Mar 06	. 6.5	ND	ND	
	May 05	993	ND	ND	
MW-25	Sep 05	920	ND	ND	
	Dec 05	1,000	ND	ND	
	Mar 06	970	ND	ND	
MW-26	Mar 06	730	ND	ND	
MW-27	Mar 06	220	ND	ND	
		INTERMEDIAT	E WELL		
	Sep 02	670.0	ND	ND	
	May 03	59.0	ND	ND	
	Sep 03	9.2	ND	ND	
	Nov 03	-	-	-	
MW-9	Jan 04	10	ND	ND	
	May 05	353	ND	ND	
	Sep 05	64	ND	ND	
1	Dec 05	190	ND	ND	
	Mar 06	ND	ND	ND	

NOTES: ND = None Detected. NS = Not Sampled. '-' cells indicate no data available.

(1) = Monitoring Well MW-11 was not sampled due to detection of floating hydrocarbons in the well.

ug/L = micrograms per liter.

PCE is perchloroethylene (tetrachloroethene). The Maximum Contaminant Level for PCE in drinking water is 5 ug/L.

TABLE 4 SUMMARY OF OTHER ANALYTICAL DATA Maryland Square Shopping Center

a training at	and the representation of	Section of the sectio	aranana arang arang palipalina	and the morning of these	AND THE REST OF THE PERSON NAMED IN	Security Services and the	CASA CESTION AND PROPERTY	ORESISTANSI VENESI OR
Dicter :			e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la co		Goncentration	Later at 11 Aug		
weimd	Sample Date	Fotaliron	Dissolved				Total	Total Organi
		FotalIron	Manganese	- Chloride	Nitrate as N	Sultate	Alkalinity	Carbon
	television, recent	STATE OF THE PARTY	SISTEMATION STREET	SHALLOW				
	May 05	ND	ND	180	8.9	1,613	ND	5.1
	Sep 05	3.70	0.057	180	8.8	1,800	230	6.0
MW-1	Dec 05	5.00	0.027	200	8.1	1,800	190	1.7
Ī	Mar-06	24.00	0.230	170	8.4	1,600	250	3.8
MW-6	May 05	ND	0,040	200	10.5	1,615	ND	6.0
MW-12	May 05	ND	ND	270	23.9	1,618	16	4.8
	May 05	ND	ND	170	6.9	1,562	ND	1.7
	Sep 05	19.00	0.690	170	6.1	1,700	260	3.6
MW-13	Dec 05	7.00	0.110	190	5.9	1,600	220	1.6
	Mar-06	7.70	0.200	240	7.0	1,500	220	1.7
	Sep 05	0.92	0.020	160	5.4	1,800	240	3.3
MW-18	Dec 05	3.70	0.015	180	4.7	1,600	200	1.4
	Mar-06	2.60	0.012	150	5.4	1,500	220	1.4
MW-19	May 05	ND	ND	170	5.9	1,599	19	2.7
MW-23	May 05	ND	ND	200	7.5	1,596	ND _	1.8
	May 05	ND	ND	180	5.9	1,616	ND_	1.7
MW-25	Sep 05	1.20	0.020	170	4.5	1,900	300	4.4
IVI VV-25	Dec 05	3.00	ND	190	4.5	1,900	230	1.3
	Mar-06	3.40	0.018	160	5.2	1,600	240	2.0
Av	erage		0.140	186	8	1659	197	2.9
		1		INTERMEDIA	1	1	1	0.1
MW-9	May 05	ND	ND	110	5.2	1,094	ND	2.1
Av	erage	t	<u> </u>	110	5.2	1,094	<u></u>	4.1

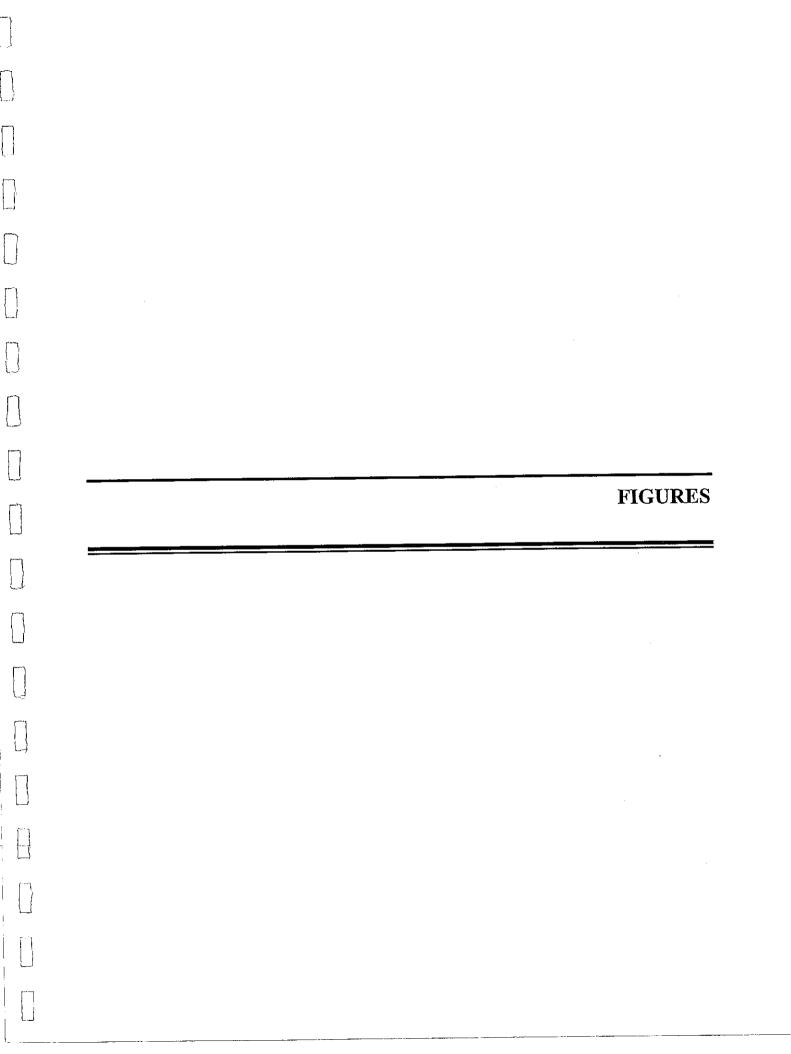
NOTES: ND is none detected. Empty cells indicate no sampling data available.

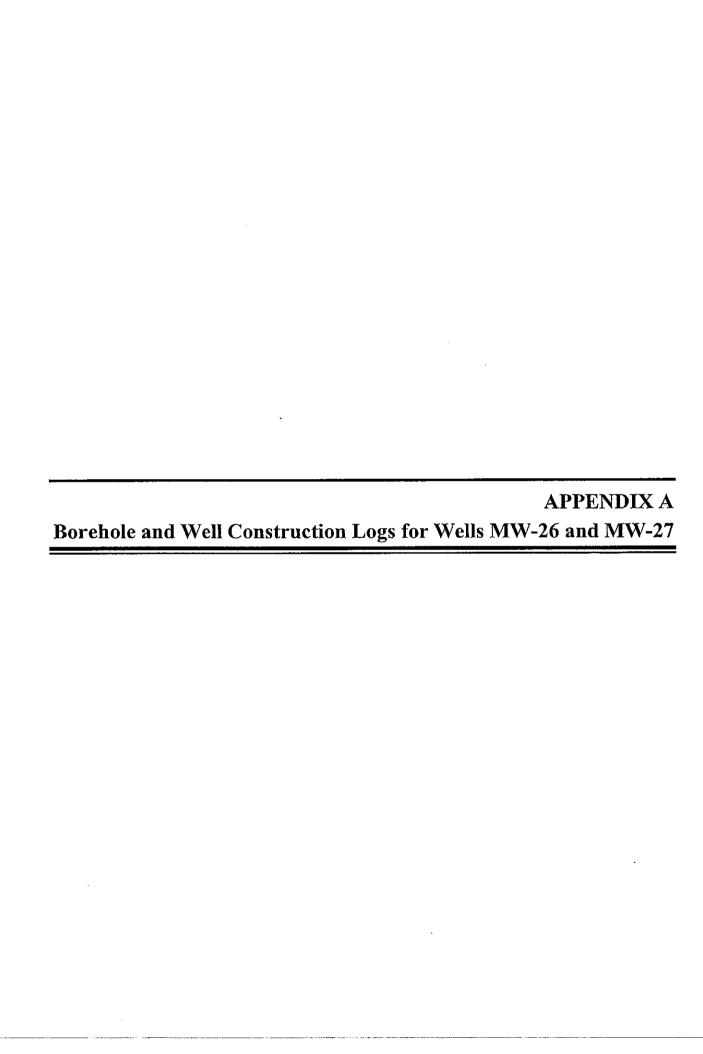
mg/L is milligrams per liter.

Total iron and manganese are total dissolved values as the samples were field filtered.

Empty cells indicate no sampling data available.

Shallow wells are approximately 25 ft deep; Intermediate wells are 30-40 ft deep.





T	25	5		ВС		HOLE LOG MW-26			
Al Phillips The Cleaner Maryland Square Shopping Center Subsurface Investigation Las Vegas, Nevada Project No. 2698724.00005					Date Started: Date Completed: Drilling Company: Drilling Method: Sampling Method: Logged By:			3/22/06 3/22/06 WDC Exploration Hollow Stem Auger Cuttings Inspection Randy S. Kyes	
Depth in Feet	Time (0100 hrs)	Sample	Well Material Log	PID/FID (ppm)	Sample Number	USCS/Other	Graphic Log	SOIL DESCRIPTION	Remarks/Well Information
33	1030					GW		Asphalt 0'-5' Sandy GRAVEL, poor sort, (road base), dry	WELL CONSTRUCTION Date Compl.: 3/22/05 Comp. Rep: R.S. Kyes SURFACE COMPLETION Type: Flush Mount Vault: Traffic Diameter: 12" Seal: Concrete Depth: 0'-1'
5	1115					SM	P	5'-13' Silty SAND, brn, dry, some small gravel.	WELL CASING Material: PVC Diameter: 4" Depth: 0'-10' Joints: flush WELL SCREEN Material: PVC Diameter: 4" Depth: 10'-35' Joints: flush Opening: 0.02" slotted Cap: expanding SAND FILTER PACK
13						CL		13'-24' Silty CLAY, brn, moist, some pea gravel.	Type: Montgomery Size: 3 Depth: 7'-40' ANNULUS SEAL Bentonite Depth: 4'-7' Concrete Depth: 0'-4' REMARKS No sampling performed, borehole was drilled and a monitor well was installed. Soil profile characterized by inspection of drill cuttings.
23 <u></u>	-					CL		24'-40' Silty CLAY, brn, v. wet	

URS								HOLE LOG AW-26		
Al Phillips The Cleaner Maryland Square Shopping Center Subsurface Investigation Las Vegas, Nevada Project No. 2698724.00005				nter	Date Started: Date Completed: Drilling Company: Drilling Method: Sampling Method: Logged By:			3/22/06 3/22/06 WDC Exploration Hollow Stem Auger Cuttings Inspection Randy S. Kyes		
Depth In Feet	Time (0100 hrs)	Sample	Well Material Log	PID/FID (ppm)	Sample Number	USCS/Other	Graphic Log	SOIL DESCRIPTION	Well: MW-25 Elev.: 1,960.74	Remarks/Weil Information
26	1150					CL		24'-40' Silty CLAY, brn, v. wet 24'-40' Silty CLAY, brn, v. wet Bottom of borehole @ 40 ft. bgs Groundwater encountered at Approximately 15' bgs.		
43 44 45 46 47 48 49 50 51										

URS								CHOLE LOG MW-27		
Al Phillips The Cleaner Maryland Square Shopping Center Subsurface Investigation Las Vegas, Nevada Project No. 2698724.00005					Date Started: Date Completed: Drilling Company: Drilling Method: Sampling Method: Logged By:			3/22/06 3/23/06 WDC Exploration Hollow Stem Auger Cuttings Inspection Randy S. Kyes		
Depth In Feet	Time (0100 hrs)	Sample	Well Material Log	PID/FID (ppm)	Sample Number	USCS/Other	Graphic Log	SOIL DESCRIPTION	Well: MW-27 Elev.:	Remarks/Well Information
0 1 2 3 4	1520					sw		Asphalt 0'-5' Gravely SAND, well sorted, (road base), dry		WELL CONSTRUCTION Date Compl.: 3/23/05 Comp. Rep: R.S. Kyes SURFACE COMPLETION Type: Flush Mount Vault: Traffic Diameter: 12" Seal: Concrete Depth: 0'-1'
5						GM		5'-12' GRAVEL, w/ silty sand, dry, well sorted.		WELL CASING Material: PVC Diameter: 4" Depth: 0'-10' Joints: flush WELL SCREEN Material: PVC Diameter: 4" Depth: 10'-35' Joints: flush Opening: 0.02" slotted Cap: expanding
13	1545 0714					CL		12'-21' Silty CLAY, bm, moist, 21'-22' CALICHE, soft, whitish		SAND FILTER PACK Type: Montgomery Size: 3 Depth: 7'-40' ANNULUS SEAL Bentonite Depth: 4'-7' Concrete Depth: 0'-4' REMARKS No sampling performed. borehole was drilled and a monitor well was installed. Soil profile characterized by inspection of drill cuttings. Restart @ 0714 on 03/23
25	1					CL		22'-26' Silty CLAY, bm, v. wet		

T	J.		25	5		во		HOLE LOG MW-27		
Al Phillips The Cleaner Maryland Square Shopping Center Subsurface Investigation Las Vegas, Nevada Project No. 2698724.00005					Date Start Date Com Drilling C Drilling M Sampling Logged B	pleted: ompan lethod: Methoc	y:	3/22/06 3/23/06 WDC Exploration Hollow Stem Auger Cuttings Inspection Scott Ball		
Depth In Feet	Time (0100 hrs)	Sample	Well Material Log	PID/FID (ppm)	Sample Number	USCS/Other	Graphic Log	SOIL DESCRIPTION	Well: MW-25 Elev.: 1,960.74	Remarks/Well Information
26						CL		26'-40' Silty CLAY, bm, v. wet 34'-40' same as above		
35	0727							Bottom of borehole @ 40 ft. bgs Groundwater encountered at Approximately 15' bgs.		03/23/06.
42										